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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,813	06/14/2006	Charles Ahn	26068-27B	8666
34238 7590 08/27/2008 ARTHUR G. SCHAIER CARMODY & TORRANCE LLP 50 LEAVENWORTH STREET P.O. BOX 1110			EXAMINER	
			NGUYEN, DAO H	
			ART UNIT	PAPER NUMBER
WATERBURY, CT 06721			2818	
			MAIL DATE	DELIVERY MODE
			08/27/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/582.813 AHN ET AL. Office Action Summary Examiner Art Unit DAO H. NGUYEN 2818 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 04 June 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-56 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) _____ is/are rejected 7) Claim(s) is/are objected to. 8) Claim(s) 1-56 are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (FTO/S5/0E)
 Paper No(s)/Mail Date ________

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.

6) Other:

5) Notice of Informal Patent Application

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Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

Group I: Claims 12-48, drawn to semiconductor devices assembly, classified in class 257, subclass 421.

Species 1: Claims 12-17, 18, 21-36, 37, and 40-48: both conductive

films are positioned below the active area of the magnetic sensor (claims 18, 37).

Species 2: Claims 12-17, 19, 21-36, 38, and 40-48: both conductive

films are positioned above the active area of the magnetic sensor (claims 19, 38)

Species 3: Claims 12-17, 20, 21-36, 39, and 40-48: one conductive film

is positioned below while the other conductive is position above the active area of

the magnetic sensor (claims 20, 39).

Group II: Claims 1-11, drawn to methods of exhibiting a switching behavior in the planar Hall effect of a magnetic film that exhibits both planar Hall effect and biaxial magnetic anisotropy, classified in class 365, subclass 97.

Group III: Claims 49-56, drawn to methods of operating a magnetoresistive

random access memory, classified in class 365, subclass 171.

Inventions of Group I and Group II, Group III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can Art Unit: 2818

be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case, the product as claimed can be used in a materially different process as that/those described in Group II and/or Group III.

- In addition, this application contains claims directed to the following patentably distinct species of the claimed invention: Group I contains Species 1-3 as cited above.
- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by either different classification, or different species, restriction for examination purposes as indicated is proper.
- 5. In case of an election of Group I would be made, Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claims is finally held to be allowable. Currently, claims 12 and 30 are generic. Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 C.F.R. 1.141.

If claims are added after the selection, applicant must indicate which are readable upon the elected species. M.P.E.P. 809.02(a). Should applicant traverse on

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the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103 of the other invention.

- Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filled petition under 37 C.F.R. 1.48(b) and by the fee required under 37 C.F.R. 1.17(h).
- Besides, Applicant is informed that the dependency of claim 31 appears to be incorrect. Appropriate correction should be made if needed.

Conclusion

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8. A shortened statutory period for response to this action is set to expire 1 (one)

month and 0 (zero) day from the day of this letter. Failure to respond within the period

for response will cause the application to become abandoned (see M.P.E.P 710.02(b)).

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dao H. Nguyen whose telephone number is (571)272-

1791. The examiner can normally be reached on Monday-Friday, 9:00 AM – 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor. Steven Loke, can be reached on (571)272-1657. The fax numbers for all

communication(s) is 571-273-8300.

/Dao H Nguyen/

Primary Examiner, Art Unit 2818

August 22, 2008